

REMARKS

In light of the above amendments and remarks to follow, reconsideration and allowance of this application are respectfully requested.

A Power of Attorney and Correspondence Address Change Form signed by the inventor is submitted herewith. Please direct all further communications to Applicant's attorney at the address indicated.

Claims 12-31 are pending in this application. Claims 1-11 are canceled.

Claims 1-4 were rejected under 35 U.S.C. § 112, second paragraph, as being indefinite. Claims 1-4 are canceled. The new claims avoid the reasons for this rejection as discussed by the Examiner. Accordingly, Applicant believes this rejection is moot.

The Specification was rejected because the Title was not descriptive of the claimed invention. A Substitute Specification (both a marked-up copy and a clean copy) is submitted herewith. The Substitute Specification amends the Title, corrects various typographical errors, and includes changes made to the figures. Accordingly, Applicant believes this rejection has been overcome.

Figures 1-7 were objected to for not being properly designated as prior art. Applicant has amended Figures 1-7 to include the label PRIOR ART. In the previously filed amendment, Applicant attempted to submit replacement Figures 8, 8a, 8b, 8c, and 9. Applicant assumes these drawings were not accepted and has now submitted amended Figures 8 and 9 and new (simplified)

Figure 8a. Applicant believes the submitted figures simply clarify features previously found in the drawings and therefore do not add new matter. The specification has been amended in accordance with the submitted figures. Accordingly, Applicant believes this objection has been overcome.

Applicant hereby confirms the previous election of Species A, Figures 8-9, covered by claims 1-4. Withdrawn claims 5-11 are canceled.

Applicant submits herewith an Information Disclosure Statement and form 1449. This IDS is a corrected version of the IDS submitted August 25, 2005.

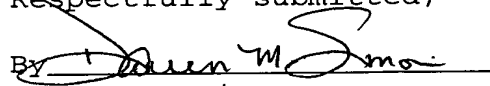
As it is believed that all of the rejections set forth in the Official Action have been fully met, favorable reconsideration and allowance are earnestly solicited.

If, however, for any reason the Examiner does not believe that such action can be taken at this time, it is respectfully requested that the Examiner telephone applicant's attorney at (908) 654-5000 in order to overcome any additional objections which the Examiner might have.

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge Deposit Account No. 12-1095.

Dated: July 7, 2006

Respectfully submitted,

By 
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IN THE DRAWINGS

Please amend Figures 1-7 to include the label -PRIOR ART- as indicated.

Please amend Figure 8 to include reference number -85- directed to the U-shaped p+n junction as indicated.

Please amend Figure 8 to include the label -n- in the vertical channel as indicated.

Please add new Figure 8a which is a 3-dimensional cross-sectional view of the present invention shown in 2-dimensional cross-section in Figure 8.

Please amend Figure 9 to show a repeat of the long vertical channel.

Attachment: A complete set of Figures, including
Replacement Sheets